

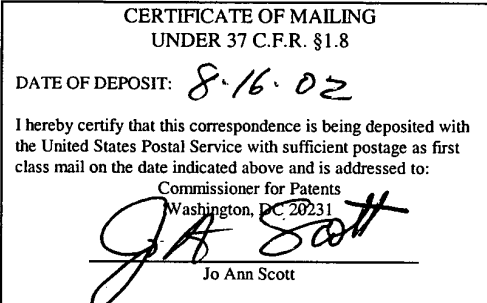


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/070,398
Filed: March 1, 2002
Inventor(s):
Gidner et al.

Examiner: Unknown
Group/Art Unit: 1724
Atty. Dkt. No: 5045-03200

Title: A HIGH PRESSURE AND
HIGH TEMPERATURE
REACTION SYSTEM



INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 (references B267 – B338) be considered by the Examiner and made of record. A copy of each listed document is enclosed for the convenience of the Examiner.

Should any fees be required, the Assistant Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 501505/5045-03200/EBM.

~~Respectfully submitted,~~

Erle B. Meyertons
Reg. No. 34,876

Attorney for Applicant(s)

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**Form PTO-1449** (modified)List of Patents and Publications
For Applicant's Information
Disclosure Statement
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ATTY. DOCKET NO: 5045-03200

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FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO YES/NO
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	B267	Chowdhury et al., "Catalytic Wet Oxidation of Strong Waste Waters," AIChE Symp. 151:71 (1975) pp. 46-58.
	B268	Freeman, "Innovative Thermal Hazardous Organic Waste Treatment Processes," Noyes Publication Park Ridge, New Jersey (1985), pp. 12-33.
	B269	Gloyna, et al. "Supercritical Water Oxidation -- Deep Well Technology for Toxic Wastewaters and Sludges," Technical Report, The University of Texas at Austin, 1989.
	B270	Imamura et al., "Wet Oxidation of Acetic Acid Catalyzed by Co-Bi Complex Oxides," Ind. Eng. Chem. Prod. Res. Dev., 21(4), pp. 570-575 (1982).
	B271	Lee et al., "Efficiency of Hydrogen Peroxide and Oxygen in Supercritical Water Oxidation of 2,4-Dichlorophenol and Acetic Acid," The Journal of Supercritical Fluids, 3 pp. 249-255 (1990).
	B272	Lu et al., "Selective Particle Deposition in Crossflow Filtration," Sep. Sci. and Technol., 24(7&8), 517-540 (1989).
	B273	Mahlman et al., "Cross-Flow Filtration in Physical Chemical Treatment of Municipal Sewage Effluents," Oak Ridge Natl. Lab. Technical Report, EPA/600/2-76/025, Feb. 1976.
	B274	Modell et al., "Supercritical Water -- Testing Reveals New Process Holds Promise," Solid Wastes Management, Aug. 1982.
	B275	Murkes, "Low-shear and High-shear Cross-flow Filtration," Filtration and Separation, 23(6), 364-36 (1986).
	B276	Murkes et al., Crossflow Filtration: Theory and Practice, John Wiley & Sons: New York, 1988.
	B277	Opatken, "Aqueous-Phase Oxidation of Sludge Using the Vertical Reaction Vessel System," EPA/600/2-87/022, March 1987.

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	B278	Perona et al., "A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,": Oak Ridge Natl. Lab. Technical Report ORNL-TM-4659, Oct. 1974.					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	B279	Shapira et al., "Removal of Heavy Metals and Suspended Solids from Battery Wastewaters: Application of Hydroperm Cross-flow Microfiltration,": Gen. Battery Corp. Report EPA/600/2-81-1 August 1981.					
	B280	Thomason et al., "Supercritical Water Destruction of Aqueous Wastes," Hazardous Waste, 1(4), 453 467 (1984).					
	B281	Teletzke, G. H. "Wet Air Oxidation," Chem. Eng. Prog., 60(1), pp. 33-38, Jan. 1964.					
	B282	Yang et al., "Homogenous Catalysis in the Oxidation of p-Chlorophenol in Supercritical Water," In Eng. Chem. Res., 27(1), pp. 2009-2014 (1988).					
	B283	Zimmermann, "New Waste Disposal Process," Chem. Eng., pp. 117-120, Aug., 1958.					
	B284	Jacobs et al., "Phase Segregation," Handbook of Separation Process Technology, published by John Wiley & Sons (1987).					
	B285	Stone & Webster Engineering Corp., "Assessment and Development of an Industrial Wet Oxidation System for Burning Waste and Low Grade Fuels," Final Report, Work Performed Under Contract DE-FC07 881D12711, Prepared for U.S. Department of Energy, September, 1989.					
	B286	Todheide et al., "Das Zweiphasengebiet und die kritische Kurve im System Kohlendioxid - Wasser bis zu Druken von 3500 bar," Zeitschrift fur Physikalische Chemie Neue Folge, Bd. 37, 8. 387-401 (1963).					
	B287	Chang et al., "Supercritical water oxidation of acetic acid by potassium permanganate," J. of Hazardous Materials, Vol. 32, pp. 001-012 (1992).					
	B288	Harada, "Wet Catalytic Oxidation Process for Wastewater Treatment," Abstract (1991).					
	B289	Imamura et al., "Wet Oxidation of Ammonia Catalyzed by Cerium-Based Composite Oxides," Ind. Eng. Chem. Prod. Res. Dev., Vol. 24, No. 1, pp. 75-80 (1985).					

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	B290	Jin et al., "The Effect of Supercritical Water on the Catalytic Oxidation of 1-4-Dichlorobenzene," presented by AIChE Spring Meeting, Orlando, FL, March 19-23 (1990), Abstract.					

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	B291	Lee et al., "Efficiency of H ₂ O ₂ in Supercritical Water Oxidation of 2, 4-Dichlorophenol and Acetic Acid," presented at AIChE Spring Meeting, Orlando, FL, March 18-22 (1990).					
	B292	Teletzke et al., "Components of Sludge and Its Wet Air Oxidation Products," Journal WPCF, 39 (6) 994-1005, 1967.					
	B293	Conditt et al., "Microanalysis of Reaction Products in Sealed Tube Wet Air Oxidations by Capillary Gas Chromatography," Anal. Chem., 56:2620-2622, 1984.					
	B294	McGinnis et al., "Conversion of Biomass into Chemicals with High-Temperature Wet Oxidation," Ind. Eng. Chem. Prod. Reg. Dev., 22(4):633-636, 1984.					
	B295	Baker, et al., "Membrane Separation Systems - A Research & Development Needs Assessment," Department of Energy Membrane Separation Systems Research Needs Assessment Group, Final Report, II, March 1990.					
	B296	Urusova, Phase Equilibria in the Sodium Hydroxide-Water and Sodium Chloride-Water Systems at 350-550 deg., " Russian Journal of Inorganic Chemistry, 19-(3):450-454, 1974.					
	B297	Valyashko, "Phase Equilibria in Water-Salt Systems: Some Problems of Solubility at Elevated Temperature and Pressure," High Temperature High Pressure Electrochemistry in Aqueous Solution National Association of Corrosion Engineers, 4:153-157, 1976.					
	B298	Armellini, "Salt Separation During Supercritical Water Oxidation of Human Metabolic Waste: Fundamental Studies of Salt Nucleation and Growth," Society of Automotive Engineers, Inc., pp. 189-203, 1990.					
	B299	Dell-Orco et al., "The Solubility of 1:1 Nitrate Electrolytes in Supercritical Water," Los Alamos National Lab Reporter, LA-UR-92-3359, pp. 1-17, 1992.					

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	B300	Martynova, "Solubility of Inorganic Compounds in Subcritical and Supercritical Water," High Temperature High Pressure Electrochemistry in Aqueous Solutions. National Association of corrosion Engineers, 4:131-138, 1976.					

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	B301	Armellini et al, "Solubilities of Sodium Chloride and Sodium Sulfate in Sub- and Supercritical Wat Vapor," AIChE National Meeting, Los Angeles, California, November 17-22, 1991, pp. 1-15.					
	B302	McBrayer et al., "Research and Development of a Commercial Supercritical Water Oxidation Process," Hazardous Material International 1993, Proceedings, 11 th Annual Eng. Management and Technology Conference.					
	B303	"Researchers Explore Applications for Supercritical Water Oxidation," The Hazardous Waste Consultant, March/April 1994, pp. 1.11-1.15.					
	B304	Collection of Information from presentations given to representatives of Texas in or about Decembe 1991 to January 1992, including "Case 1" flow diagram, a "Reaction Injection System" diagram, a "Process Flow diagram," a "Case 2" flow diagram, a diagram entitled "TCA SCWO Unit Schedule" dated 1/10/92, a diagram entitled "Phases of Water at Moderate Pressures," a diagram entitled "Figure PD2 Properties of Water (3,200-4,400 psia)," a diagram entitled "Figure PD9 Basic Configuration o Supercritical Oxidation Unit," a diagram entitled "UTPILOT UNIT COILED REACTOR," a diagra plotting "temperature vs. Distance from reactor inlet," a chart and diagram entitled "Texaco Waste Run 15 Dec 1991."					
	B305	Handwritten Notes relating to work done in or about May, 1993 (9 pages).					
	B306	Handwritten Notes by Roy McBrayer dated July-December 1991 (5 pages).					
	B307	Handwritten Notes relating to work done on or about December, 1991 (11 pages).					
	B308	Handwritten Notes relating to work done on or about January, 1992 (14 pages).					
	B309	Handwritten Notes by Jimmy Swan dated August 7, 1991 and August 27, 1991 (2 pages).					
	B310	Handwritten Notes by James Eller dated July-November, 1991 (5 pages).					

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	B311	Killilea et al., "The Fate of Nitrogen in Supercritical Water Oxidation" MODAR, Inc., Natick, Massachusetts 01760 USA.					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	B312	Excerpts From Publication Showing Salt Mixture Properties (pp. 124, 780, 781, 814, 816).
	B313	Fassbender, Supercritical Water Oxidation Workshop, "The Dual Shell Pressure Balanced Vessel: Reactor For Corrosive Applications," (11 pages).
	B314	Excerpts From Publication "Strategies for Sticky Salts," (2 pages).
	B315	Eco Waste Technologies, "Fact Sheet" and photograph of SCWO Pilot Plant, August 1994 (2 pages)
	B316	Eco Waste Technologies, "Environmental Breakthrough: Huntsman Announces Successful Use of New Technology," (2 pages).
	B317	Eco Waste Technologies, Circular on Supercritical Water Oxidation (5 pages).
	B318	Griffith, "Destruction of Aqueous Organic Wastes by Supercritical Water Oxidation," June 15-17, 1994, (12 pages).
	B319	Gloyna, "Supercritical Water Oxidation Applications For Industrial Sludges," January 30, 1992, (pp 1-15).
	B320	Gloyna et al., "Supercritical Water Oxidation: An Engineering Update," February 1992, (pp. 1-25).
	B321	"Separation Update," Separations Research Program Center for Energy Studies, The University of Texas at Austin, Spring 1994 issue, (pp. 1-4).
	B322	Gloyna, et al., "Engineering Aspects of Supercritical Water Oxidation," Wat. Sci. Tech., Vol. 30, N 9, 1994, (pp. 1-10).
	B323	Tester, et al., "Supercritical Water Oxidation Technology: A Review of Process Development and Fundamental Research", 1991 ACS Symposium Series Paper on Emerging Technologies for Hazardous Waste Management, October 1-3, 1991, Atlanta, Georgia, Chemical Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts, pp 1-581

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	B324	Zimmermann, et al., "The Zimmermann Process and Its Applications in the Pulp and Paper Industry Tappi, August 1960, Vol. 43, No. 8., pp. 710-715.					
		OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
	B325	Barner, et al., "Supercritical Water Oxidation: An Emerging Technology", Presented atACHEMA 1991 - International Meeting on Chemical Engineering and Biotechnology, June 9, 1991, ABB Lummus Crest Inc., pp. 1-14, Figs. 1-8.					
	B326	Takahashi, et al., "Subcritical and Supercritical Water Oxidation of CELSS Model Wastes", Department of Civil Engineering, Nigata University, Japan, pp. 95-106.					
	B327	Whitlock, "Organic Reations in Supercritical Water", Submitted in Partial Fulfillment of the Requirements for the Degrees of Bachelor of Science and Master of Science at the Massachusetts Institute of Technology, May, 1978, pp. 1-77.					
	B328	Supercritical Water Oxidation Information Package, August 1994, Eco Waste Technologies, pp. 1-4					
	B329	Pennwell Publishing Co., "Supercritical Water Oxidation Unit Destroys Organic Wastes," Oil and Gas Journal, October 1994.					
	B330	McBrayer et al., "Operation of the First Supercritical Water Oxidation Industrial Waste Facility," EcoWaste Technologies, 1995, pp. 1-8.					
	B331	Cheremisinoff et al., editors, Pollution Engineering Practice Handbook, Ann Arbor Science Publishers, Inc., 1975, pp. 732-735.					
	B332	Sheets, "Erosion Control in Supercritical Water Systems," Submitted in partial Fulfillment of the Requirement for a Master's Thesis at University of Texas at Austin, May, 1991, pp. 40-50.					
	B333	General College Chemistry, 5 th Edition, Keenan, Charles W. et al., pp. 179-180.					
	B334	Bramlette et al., "Destruction of DOE/DP Surrogate Wastes with Supercritical Water Oxidation Technology", Sandia National Laboratories Report, November 1990, pp. 1-35.					

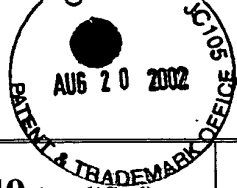
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	B335	Caruana, "Supercritical Water Oxidation Aims for Wastewater Cleanup," Chem. Eng. Prog., April 1995					
	B336	Dell'Orco et al., "Reactions of Nitrate Salts with Ammonia in SuperCritical Water," Ind. Eng. Chem Vol. 36 No.7 1997					
	B337	Kritzer et al., "The Corrosion of Nickel-base Alloy 625 in Sub and Supercritical Aqueous Solutions HNO ₃ in the Presence of Oxygen," J. Material Science Letters, 1999					
	B338	Josephson, Julian, "Supercritical Fluids" Environ. Sci. Technol., 1982, p. 548A-551A					
	B339	Cocero et al.; "SCWRO Process For Regeneration of Activated Carbon and Destruction of Pollutan in Supercritical Water" Proceedings of the Chemviron Carbon Award Meeting, University of Leuve May 1997.					

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	B1	1,725,782	8/1929	Florez			
	B2	1,986,196	1/1935	Grosse			
	B3	1,988,456	1/1935	Lysholm			
	B4	2,398,546	4/1946	Messmore			
	B5	2,476,598	7/1949	Hall et al.			
	B6	2,519,616	8/1950	Watkins			
	B7	2,545,384	3/1951	Rehig			
	B8	2,647,368	8/1953	Triebnigg et al.			
	B9	2,665,249	1/1954	Zimmerman			
	B10	2,692,800	10/1954	Nichols et al.			
	B11	2,697,910	12/1954	Brzozowski			
	B12	2,735,265	2/1956	Eastman			
	B13	2,767,233	10/1956	Mullen et al.			
	B14	2,824,058	2/1958	Zimmerman			
	B15	2,944,396	7/1960	Barton et al.			
	B16	3,047,003	7/1962	Gurney			
	B17	3,047,371	7/1962	Krause et al.			
	B18	3,101,592	8/1963	Robertson et al.			
	B19	3,129,587	4/1964	Hallanger			
	B20	3,149,176	9/1964	Glazier et al.			
	B21	3,207,572	9/1965	Saul			
	B22	3,282,459	11/1966	Wilson			
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	B29	3,549,314	12/1970	Shah			
	B30	3,606,999	9/1971	Lawless			
	B31	3,626,874	12/1971	Grant			
	B32	3,654,070	4/1972	Pradt et al.			
	B33	3,674,045	7/1972	Millman et al.			
	B34	3,682,142	8/1972	Newkirk			
	B35	3,716,474	2/1973	Hess et al.			
	B36	3,743,606	7/1973	Marion et al			
	B37	3,761,409	9/1973	McCoy et al.			
	B38	3,804,756	4/1974	Callahan et al.			
	B39	3,849,075	11/1974	Albright et al.			
	B40	3,849,536	11/1974	Morgan			
	B41	3,852,192	12/1974	Fassell et al.			
	B42	3,853,759	12/1974	Titmas			
	B43	3,876,497	4/1975	Hoffman			
	B44	3,876,536	4/1975	Pradt et al.			
	B45	3,886,972	6/1975	Scott et al.			
	B46	3,899,923	8/1975	Teller			
	B47	3,900,300	8/1975	Lehman			
	B48	3,912,626	10/1975	Ely et al.			

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	B13	2,767,233	10/1956	Mullen et al.			
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	B17	3,047,371	7/1962	Krause et al.			
	B18	3,101,592	8/1963	Robertson et al.			
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	B21	3,207,572	9/1965	Saul			
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	B31	3,626,874	12/1971	Grant			
	B32	3,654,070	4/1972	Pradt et al.			
	B33	3,674,045	7/1972	Millman et al.			
	B34	3,682,142	8/1972	Newkirk			
	B35	3,716,474	2/1973	Hess et al.			
	B36	3,743,606	7/1973	Marion et al.			
	B37	3,761,409	9/1973	McCoy et al.			
	B38	3,804,756	4/1974	Callahan et al.			
	B39	3,849,075	11/1974	Albright et al.			
	B40	3,849,536	11/1974	Morgan			
	B41	3,852,192	12/1974	Fassell et al.			
	B42	3,853,759	12/1974	Titmas			
	B43	3,876,497	4/1975	Hoffman			
	B44	3,876,536	4/1975	Pradt et al.			
	B45	3,886,972	6/1975	Scott et al.			
	B46	3,899,923	8/1975	Teller			
	B47	3,900,300	8/1975	Lehman			
	B48	3,912,626	10/1975	Ely et al.			

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Information Disclosure Statement--PTO 1449 (modified)

Form PTO-1449 (modified)
List of Patents and Publications
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ATTY. DOCKET NO: 5045-03200

SERIAL NO: 10/070,398

APPLICANT: Gidner et al.

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FILING DATE: March 1, 2002

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B49	3,920,506	11/1975	Morgan			
	B50	3,920,548	11/1975	Fassell et al.			
	B51	3,929,429	12/1975	Crouch			
	B52	3,938,972	2/1976	Sugimura			
	B53	3,945,805	3/1976	Costello et al.			
	B54	3,945,806	3/1976	Costello et al.			
	B55	3,977,966	8/1976	Pradt et al.			
	B56	3,978,661	9/1976	Cheng			
	B57	3,984,311	10/1976	Diesen et al.			
	B58	4,000,068	12/1976	Nelson et al.			
	B59	4,005,803	2/1977	Kent			
	B60	4,008,994	2/1977	Numasake et al.			
	B61	4,010,098	3/1977	Fassell			
	B62	4,013,560	3/1977	Pradt			
	B63	4,017,421	4/1977	Othmer			
	B64	4,061,556	12/1977	Modell			
	B65	4,094,815	6/1978	Cedro, III et al.			
	B66	4,100,730	7/1978	Pradt			
	B67	4,113,446	9/1978	Modell et al			
	B68	4,120,644	10/1978	Numasaki et al.			
	B79	4,124,528	11/1978	Modell			
	B70	4,141,829	2/1979	Thiel et al.			
	B71	4,145,283	3/1979	Topp et al.			
	B72	4,146,359	3/1979	Lumpkin et al.			

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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B73	4,147,624	4/1979	Modell			
	B74	4,174,280	11/1979	Pradt et al.			
	B75	4,191,012	3/1980	Stoddard et al.			
	B76	4,199,545	4/1980	Matovich			
	B77	4,212,735	7/1980	Miller			
	B78	4,215,094	7/1980	Inao et al.			
	B89	4,217,218	8/1980	Bauer			
	B80	4,221,577	9/1980	Lowrie			
	B81	4,221,763	9/1980	Greene			
	B82	4,229,296	10/1980	Wheaton et al.			
	B83	4,241,722	12/1980	Dickinson			
	B84	4,261,805	4/1981	Galliker et al.			
	B85	4,272,383	6/1981	McGrew			
	B86	4,284,015	8/1981	Dickinson			
	B87	4,292,953	10/1981	Dickinson			
	B88	4,326,957	4/1982	Rosenberg			
	B99	4,338,199	7/1982	Modell			
	B90	4,344,785	8/1982	Jensen			
	B91	4,370,223	1/1983	Bose			
	B92	4,377,066	3/1983	Dickinson			
	B93	4,378,976	4/1983	Rush			
	B94	4,379,124	4/1983	Fouquet			
	B95	4,380,960	4/1983	Dickinson			
	B96	4,384,897	5/1983	Brink			

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SERIAL NO: 10070,398

GROUP: 24

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B97	4,384,959	5/1983	Bauer et al.			
	B98	4,398,295	8/1983	Mihara et al.			
	B99	4,543,190	9/1985	Modell			
	B100	4,460,628	7/1984	Wheaton et al.			
	B101	4,462,904	7/1984	Hager et al.			
	B102	4,485,003	11/1984	Coenen et al			
	B103	4,488,866	12/1984	Schirmer et al.			
	B104	4,490,346	12/1984	Cheng			
	B105	4,510,958	4/1985	Coursen			
	B106	4,526,584	7/1985	Funk			
	B107	4,541,990	9/1985	Mitterbacher			
	B108	4,543,190	9/1985	Modell			
	B109	4,564,458	1/1986	Burleson			
	B110	4,593,202	6/1986	Dickinson			
	B111	4,594,164	6/1986	Titmas			
	B112	4,604,215	8/1986	McCorquodale			
	B113	4,643,890	2/1987	Schramm			
	B114	4,668,256	5/1987	Billiet et al.			
	B115	4,671,351	6/1987	Rappe			
	B116	4,683,122	7/1987	Concordia et al.			
	B117	4,692,252	9/1987	Atwood et al.			
	B118	4,698,157	10/1987	Gillot			
	B119	4,713,177	12/1987	Atwood et al.			
	B120	4,714,032	12/1987	Dickinson			

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APPLICANT: Gidner et al.

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SERIAL NO: 6,070,398

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U.S. PATENT DOCUMENTS

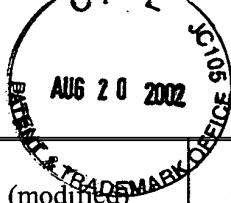
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	B121	4,714,526	12/1987	Pennisi et al.			
	B122	4,721,575	1/1988	Binning et al.			
	B123	4,733,852	3/1988	Glasgow et al.			
	B124	4,741,386	5/1988	Rappe			
	B125	4,744,908	5/1988	Peterscheck et al.			
	B126	4,744,909	5/1988	Ferraro et al.			
	B127	4,749,492	6/1988	Berrigan, Jr. et al.			
	B128	4,762,148	8/1988	Marui et al.			
	B129	4,765,900	8/1988	Schwoyer et al.			
	B130	4,767,543	8/1988	Chornet et al.			
	B131	4,774,006	9/1988	Kaufmann			
	B132	4,784,672	11/1988	Sircar			
	B133	4,792,408	12/1988	Titmas			
	B134	4,793,153	12/1988	Hembree et al.			
	B135	4,797,524	1/1989	Moret et al.			
	B136	4,801,090	1/1989	Yoshida et al.			
	B137	4,803,054	2/1989	Sillerud et al.			
	B138	4,822,394	4/1989	Zeigler et al.			
	B139	4,822,497	4/1989	Hong et al.			
	B140	4,853,136	8/1989	Roussel et al.			
	B141	4,853,205	8/1989	Tolley et al.			
	B142	4,861,484	8/1989	Lichtin et al.			
	B143	4,861,497	8/1989	Welch et al.			
	B144	4,869,833	9/1989	Binning et al.			

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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B145	4,872,890	10/1989	Lamprecht			
	B146	4,880,440	11/1989	Perrin			
	B147	4,887,628	12/1989	Bowe et al.			
	B148	4,891,139	1/1990	Zeigler et al			
	B149	4,898,107	2/1990	Dickinson			
	B150	4,928,885	5/1990	Nakao			
	B151	4,936,990	6/1990	Brunsell et al			
	B152	4,957,721	9/1990	Lonsinger et al			
	B153	4,962,275	10/1990	Bruno			
	B154	4,963,329	10/1990	Burgess et al.			
	B155	4,968,328	11/1990	Duke			
	B156	4,983,296	1/1991	McMahon et al			
	B157	5,009,857	4/1991	Hearle			
	B158	5,011,614	4/1991	Gresser et al.			
	B159	5,013,698	5/1991	Lonsinger et al.			
	B160	5,052,426	10/1991	Kasper			
	B161	5,053,142	10/1991	Sorensen et al.			
	B162	5,057,220	10/1991	Harada et al			
	B163	5,057,231	10/1991	Mueller et al.			
	B164	5,075,017	12/1991	Hossain et al.			
	B165	5,106,513	4/1992	Hong			
	B166	5,110,581	5/1992	Derrah			
	B167	5,124,292	6/1992	Larsen et al.			
	B168	5,133,877	7/1992	Rofer et al.			

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EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B169	5,167,930	12/1992	Fassbender			
	B170	5,183,577	2/1993	Lehmann			
	B171	5,186,910	2/1993	Alagy et al.			
	B172	5,192,453	3/1993	Keckler et al.			
	B173	5,198,398	3/1993	van Duijn			
	B174	5,199,853	4/1993	Padden			
	B175	5,207,399	5/1993	Risberg et al.			
	B176	5,221,486	6/1993	Fassbender et al.			
	B177	5,230,810	7/1993	Clark et al.			
	B178	5,230,872	7/1993	Tiggelbeck et al.			
	B179	5,232,604	8/1993	Swallow et al.			
	B180	5,232,605	8/1993	Baur et al.			
	B181	5,238,671	8/1993	Matson et al.			
	B182	5,240,619	8/1993	Copa et al			
	B183	5,250,193	10/1993	Sawicki et al.			
	B184	5,252,224	10/1993	Modell et al.			
	B185	5,252,297	10/1993	Nakai			
	B186	5,266,540	11/1993	Menicagli et al.			
	B187	5,280,701	1/1994	Tolman			
	B188	5,326,540	7/1994	Chastagner			
	B189	5,339,621	8/1994	Tolman			
	B190	5,358,645	10/1994	Hong et al.			
	B191	5,358,646	10/1994	Gloyna et al.			
	B192	5,367,147	11/1994	Kim et al.			

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EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B193	5,370,799	12/1994	Oddo et al.			
	B194	5,384,051	1/1995	McGuinness			
	B195	5,385,214	1/1995	Spurgeon			
	B196	5,387,398	2/1995	Mueggenburg et al.			
	B197	5,405,533	4/1995	Hazlebeck et al.			
	B198	5,405,812	4/1995	Bruggendick			
	B199	5,417,937	5/1995	Voight et al.			
	B200	5,417,953	5/1995	Capelli			
	B201	5,421,998	6/1995	Li et al.			
	B202	5,425,883	6/1995	Reid et al.			
	B203	5,427,764	6/1995	Barber			
	B204	5,437,798	8/1995	McCarthy et al			
	B205	5,454,950	10/1995	Li et al.			
	B206	5,461,648	10/1995	Nauflett et al.			
	B207	5,492,634	2/1996	Hong et al.			
	B208	5,527,471	6/1996	Hong et al.			
	B209	5,536,385	7/1996	Sheldon et al.			
	B210	5,543,057	8/1996	Whiting et al.			
	B211	5,545,337	8/1996	Hong			
	B212	5,551,472	9/1996	McBrayer Jr. et al.			
	B213	5,552,039	4/1992	McBrayer, Jr. et al.			
	B214	5,558,783	9/1996	McGuinness			
	B215	5,560,822	10/1996	Bond et al.			
	B216	5,560,823	10/1996	Whiting			

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FILING DATE: March 1, 2002

U.S. PATENT DOCUMENTS

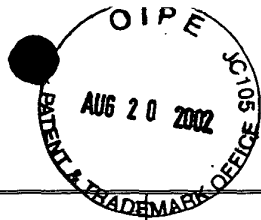
EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	B217	5,571,423	11/1996	Daman			
	B218	5,571,424	11/1996	Ahluwalia			
	B219	5,582,715	12/1996	McBrayer, Jr. et al.			
	B220	5,591,415	1/1997	Dassel et al.			
	B221	5,607,595	3/1997	Hiasa et al.			
	B222	5,620,606	4/1997	McBrayer, Jr. et al.			
	B223	5,628,819	5/1997	Mestemaker et al.			
	B224	5,630,434	5/1997	Gray et al.			
	B225	5,755,974	5/1998	McBrayer, Jr. et al.			
	B226	5,770,174	6/1998	Eller et al.			
	B340	3,816,338	6/1974	Corson			
	B341	4,075,281	2/1978	Port et al.			
	B342	4,689,054	8/1987	Vara et al.			
	B343	6,121,179	9/2000	McBrayer, Jr. et al.			

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FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO YES/NO
	B227	073 355	4/1983	EP			
	B228	085 961 A1	7/1983	EP			
	B229	135 144 A1	3/1985	EP			
	B230	4-745	10/1979	EP			
	B231	388 915 A1	9/1990	EP			
	B232	480 492 A1	4/1992	EP			
	B233	513 186 B1		EP			
	B234	0 572 913 A1	12/1993	EP			
	B235	595 858 B1	4/1995	EP			
	B236	0 708 058 A2	4/1996	EP			
	B237	0 818 240 A2	1/1998	EP			
	B238	8200067-0	1/1992	Sweden			No
	B239	81/03169	11/1991	WO			
	B240	87/01381	3/1987	WO			
	B241	90/01367	2/1990	WO			
	B242	90/06189	6/1990	WO			
	B243	91/11394	7/1991	WO			
	B244	92/18428	10/1992	WO			
	B245	92/21621	12/1992	WO			
	B246	92/21622	12/1992	WO			
	B247	93/00304	1/1993	WO			
	B248	93/02969	2/1993	WO			

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	B249	94/11310	5/1994	WO			
	B250	95/33693	6/1995	WO			
	B251	96/27558	9/1996	WO			
	B252	1[1989]-38532	8/1989	JP			
	B253	62-68414		JP			No
	B254	10-137774	5/1998	JP			No
	B255	10-137775	5/1998	JP			No
	B256	SHO 57-4225	1/1982	JP			No
	B257	53091093	8/1978	JP			No
	B258	2,075,484 B		UK			
	B259	584,671	2/1947	UK			
	B260	2,297,321	7/1996	UK			
	B261	2 410 504	8/1979	FR			
	B262	2 314 426	1/1977	FR			No
	B263	483,881	11/1977	USSR			
	B264	576,683	1/1980	USSR			
	B265	521,233	9/1976	USSR			
	B266	40 03 377	8/1991	DE			No

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